

# DUQUESNE UNIVERSITY

## AUTOMATIC EXTERNAL DEFIBRILLATOR (AED) PROGRAM

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### I. **Introduction:**

Sudden cardiac arrest occurs when the heart stops pumping blood to the body. This condition is most often due to an abnormal heart rhythm referred to as ventricular fibrillation. A normal rhythm can be reestablished by providing an electrical shock to the heart. An automated external defibrillator (AED) is a device designed to analyze the victim's heart rhythm and notify the user when to deliver a potentially life-saving shock when necessary. The AED protects against inappropriate shocking - if it detects a proper heart rhythm, a shock will not occur.

### II. **Purpose:**

The purpose of this program is to provide responders on the Duquesne University campus with prompt access to AED units in the event of a cardiac arrest emergency. This document identifies the location of all campus AEDs and establishes guidelines for the inspection and maintenance of AED units.

### III. **Scope:**

This program is administered by the Duquesne University Environmental Health & Safety Department (EH&S).

### IV. **Responsible Parties:**

The following responsibilities have been assigned in order to meet the objectives of this program:

#### **Industrial Hygiene Manager**

- Ensures compliance with AED procedures and protocols established by the EH&S Department.
- Oversees monthly and annual inspections of each AED unit.
- Completes and retains records of AED use, inspection and maintenance.

#### **Public Safety Department:**

- Responds to cardiac arrest emergency calls.
- Maintains current status in all required life saving training.

### V. **AED Equipment & Locations:**

Duquesne University has 56 AEDs located in the following areas:

Administration Building (Floor 1, Outside Chapel Entrance)		Genesis Theatre (Main Entrance – by Bathrooms)
Administration Building (Floor 5, Reception)		Gumberg Library (Floor 4, Circulation Desk)
Assumption Hall (Floor 1, Lobby)		Koren Building (Floor 1, Lobby)
Barnes & Nobel (Forbes Ave., By Cash Registers)		Laval House (Main Entrance – By Stairs)

Bayer Hall <i>(Floor 1 - Main Lobby - West Stairwell)</i>		Law School <i>(Floor 2, Student Lounge)</i>
Bushinski Building <i>(Floor 2, Middle)</i>		Libermann Hall <i>(Floor 1, Lobby)</i>
Canevin Hall <i>(Floor 1, Lobby)</i>		Mellon Hall <i>(Floor 1, Elevator)</i>
College Hall <i>(Floor 2, Entrance)</i>		Mellon Hall <i>(Floor 3, Elevator)</i>
Cooper Building <i>(Floor 1, Lobby Entrance)</i>		MoonLit Burgers <i>(Dining Area)</i>
Cooper Building <i>(Floor 5, EH&amp;S)</i>		Muldoon Building <i>(Floor 1, Main Corridor)</i>
Cooper Field House <i>(Floor 1 – Folino SPC)</i>		Music School <i>(Floor 2, Seitz Street Entrance)</i>
Cooper Field House <i>(Floor 1 – Main Gym)</i>		Power Center <i>(Floor 2, Elevator)</i>
Cooper Field House <i>(Concourse Level – By PNC ATM)</i>		Power Center <i>(Floor 3, Elevator)</i>
Cooper Field House <i>(Floor 1, Row Team)</i>		Power Center <i>(Floor 3M, Elevator)</i>
Cooper Field House <i>(Floor 2, Bowling Team)</i>		Power Center <i>(Floor 4, Elevator)</i>
Cooper Field House <i>(Floor 2, Cross Country Team)</i>		Power Center <i>(Floor 5, Elevator)</i>
Cooper Field House <i>(Floor 2, Football Team)</i>		Public Safety Vehicle <i>(Vehicle 1)</i>
Cooper Field House <i>(Room 214, Intercollegiate Athletics)</i>		Public Safety Vehicle <i>(Vehicle 2)</i>
Cooper Field House <i>(Room 214, Intercollegiate Athletics)</i>		Public Safety Building <i>(Front Desk Area)</i>
Cooper Field House <i>(Floor 2, Triathlon Team)</i>		Rangos School of Health Sciences <i>(Floor 2, Lobby)</i>
Des Places Hall <i>(Floor 1, Elevator Area)</i>		Rockwell Hall <i>(Floor 1, Boyd Street Entrance)</i>
Duquesne Towers <i>(Floor 1, Lobby)</i>		St. Ann Hall <i>(Floor 1, Lobby)</i>
Duquesne Towers <i>(Floor 2, Laundry Area, Rooney Field Entrance)</i>		Student Union <i>(Floor 2, Stairwell Entrance)</i>
Duquesne Towers <i>(Swimming Pool)</i>		Student Union <i>(Floor 3, Stairwell Entrance)</i>
Duquesne Towers <i>(Room 101)</i>		Tobin Building <i>(Floor 2, Rear Office Area)</i>

Fisher Hall (Floor 4, Speech-Language Pathology)		Tribone Building (Floor 2, Stairwell)
Fisher Hall (Floor 5, Nursing)		Trinity Hall (Floor 2, Handicap Ramp)
Forbes Garage (Guard Shack)		Vickroy Hall (Floor 1, Lobby)

All AEDs are stored in wall mounted cabinets with the following exceptions: Duquesne Towers (Room 101), Cooper Field House (*I.A. & Athletic Teams*), Gumberg Library, the School of Nursing, Laval House, and the Public Safety Patrol Vehicles. Each AED has a small pouch filled with AED accessories (pocket mask, nitrile gloves, scissors, razor, sterile gauze & alcohol wipes).

**VI. Emergency Response:**

Campus emergencies must immediately be reported to campus police (x2677) who provide the first response. In the event of a cardiac arrest emergency, campus police will respond and assess the situation, call for additional medical support (in the event EMS has not been summoned), and provide aid. Campus police are trained to use AED units and are CPR certified.

**VII. AED Response Plan:**

The following protocol should be followed when a cardiac arrest emergency occurs:

1. Check the scene for hazards such as electrical dangers, chemical hazards, dangerous individuals, traffic, fire or flammable materials.
2. Determine whether the victim is responsive, not breathing, and without a pulse.
3. If victim is not responsive, immediately call campus police (x2677) and indicate the location of the victim. If possible, designate an individual to wait at the facility entrance to direct police and EMS to the victim.
4. Call for AED and immediately begin CPR until AED arrives. Once the nearest AED unit is retrieved, begin following AED instructions
5. Upon arrival at the scene, campus police can assess the victim's status and initiate or continue CPR/AED use as necessary.
6. EMS shall take charge of caring for the victim upon arrival.

**VIII. Maintenance:**

The AED units require no calibration or verification of energy delivery. The units perform regular self-tests to ensure proper functioning. To ensure readiness for use, the following maintenance schedule will be followed for each AED unit:

**Monthly Inspection:**

EH&S will inspect the condition of each AED unit on a monthly basis. This inspection will be completed to ensure the proper working condition of the units and include verifying proper working order of battery and electrode pads as per confirmation of the status indicators, unrestricted access to machines, and presence of necessary accessories and extra equipment. If the unit is not in proper working order or other conditions exist, immediate action will be taken to rectify the situation.

### **Annual Inspection:**

EH&S will inspect the condition of each AED unit on an annual basis. This inspection will involve checking the integrity of the electrode pads and unit circuitry and service indicator circuitry.

Records of both monthly and annual inspection will be available through the EH&S Department.

### **IX. Reporting Procedures:**

Any use of an AED unit must be reported to EH&S. A report will be kept on file detailing:

- Manufacturer and model number of AED used
- Location of victim when AED was applied
- Date and time of AED use
- Name of AED operator
- Name of person on whom AED was used
- Brief description of circumstances under which AED was used
- Hospital victim was transferred to during response

### **X. Training**

Training shall be provided by campus police to interested parties upon request. It is recommended that Floor marshals designated in each building receive AED training on an annual basis.